

**IN THE CLAIMS**

Claims 1-21 (Canceled).

22. (New) A system for processing voice for communication over a network comprising:

a processing circuit for managing the packetization of digital voice data representative of analog voice signals to provide digital voice data packets and for managing the depacketization of digital voice data, the processing circuit packetizing the digital voice data according to a packet protocol; and

a transceiver circuit for wireless transmission and wireless reception according to a wireless communication protocol of the digital voice data packets.

23. (New) A system as recited in claim 22 wherein the packet protocol comprises an internet protocol.

24. (New) A system as recited in claim 23 wherein the internet protocol is TCP/IP.

25. (New) A system as recited in claim 22 wherein the wireless transmission and reception of digital voice data packets is in accordance with a spread spectrum frequency hopping communication protocol.

26. (New) A system as recited in claim 22 wherein the wireless transmission and reception of digital voice data packets is in accordance with a direct sequence spread spectrum communication protocol.

27. (New) A system as recited in claim 22 wherein the wireless transmission and reception of digital voice data packets utilizes a communication protocol with a plurality of data rates including at least a standard data rate and a higher data rate.

28. (New) A system for processing voice for communication over a network comprising:

conversion circuitry for converting analog voice signals to digital voice data and for converting digital voice data to analog voice signals for the reproduction of voice;

a processing circuit for managing the packetization of digital voice data to provide digital voice data packets and for managing the depacketization of digital voice data, the processing circuit packetizing the digital voice data according to a packet protocol; and

a transceiver circuit for wireless transmission and wireless reception according to a wireless communication protocol of the digital voice data packets.

29. (New) A method for processing voice for a communication network comprising:

packetizing digital voice data representing analog voice signals according to a packet protocol;

wirelessly transmitting, in accordance with a wireless communication protocol, the digital voice data packetized according to a packet protocol.

30. (New) A method as recited in claim 29 wherein the packet protocol comprises an internet protocol.

31. (New) A method as recited in claim 30 wherein the internet protocol is TCP/IP.

32. (New) A method as recited in claim 29 further comprising converting analog voice signals to digital voice data.

33. (New) A method as recited in claim 29 wherein the wireless communication protocol is a spread spectrum frequency hopping communication protocol.

34. (New) A method as recited in claim 29 wherein the wireless communication protocol is a direct sequence spread spectrum communication protocol.

35. (New) A method as recited in claim 29 wherein the wireless communication protocol accommodates a plurality of data rates.
36. (New) A method for processing voice for a communication network comprising:
  - packetizing digital voice data according to a packet protocol;
  - wirelessly transmitting, in accordance with a wireless communication protocol, the digital voice data packetized according to a packet protocol;
  - wirelessly receiving, in accordance with the wireless communication protocol, digital voice data packetized according to a packet protocol;
  - depacketizing the digital voice data; and
  - converting the digital voice data to analog voice signals.
37. (New) A method as recited in claim 36 wherein the packet protocol comprises an internet protocol.
38. (New) A method as recited in claim 37 wherein the internet protocol is TCP/IP.
39. (New) A method as recited in claim 36 further comprising converting analog voice signals to digital voice data.
40. (New) A method as recited in claim 36 wherein the wireless communication protocol is a spread spectrum frequency hopping communication protocol.
41. (New) A method as recited in claim 36 wherein the wireless communication protocol is a direct sequence spread spectrum.
42. (New) A method as recited in claim 36 wherein the wireless communication protocol accommodates a plurality of data rates.

43. (New) A system for processing voice for communication over a network comprising:

a processing circuit for managing the packetization of digital voice data to provide digital voice data packets and for managing the depacketization of digital voice data, the processing circuit packetizing the digital voice data according to a packet protocol;

a transceiver for wireless transmission and wireless reception of the digital voice data packets; and

a media access controller for controlling the operations of the transceiver to transmit and receive information according to a wireless communication protocol.

44. (New) A system as recited in claim 43 wherein the packet protocol comprises an internet protocol.

45. (New) A system as recited in claim 44 wherein the internet protocol is TCP/IP.

46. (New) A system as recited in claim 43 further comprising conversion circuitry for converting analog voice signals to digital voice data and for converting digital voice data to analog voice signals for the reproduction of voice.

47. (New) A system for processing voice for communication over a network comprising:

a processing circuit for managing the packetization of digital voice data to provide digital voice data packets and for managing the depacketization of digital voice data, the processing circuit packetizing the digital voice data according to a packet protocol; and

a 2.4 GHz radio operating in accordance with a frequency hopping communication protocol for transmitting and receiving digital voice data packets.

48. (New) A system as recited in claim 47 wherein the packet protocol comprises an internet protocol.

49. (New) A system as recited in claim 48 wherein the internet protocol is TCP/IP.

50. (New) A system as recited in claim 47 further comprising conversion circuitry for converting analog voice signals to digital voice data and for converting digital voice data to analog voice signals for the reproduction of voice.

51. (New) A system for processing voice for communication over a network comprising:

a processing circuit for managing the packetization of digital voice data to provide digital voice data packets and for managing the depacketization of digital voice data, the processing circuit packetizing the digital voice data according to a packet protocol;

a radio for wireless transmission and reception of digital voice data packets; and

a processor for controlling the operation of the radio according to a communication protocol that accommodates a plurality of data rates including at least a standard data rate and a higher data rate.

52. (New) A system as recited in claim 51 wherein the packet protocol comprises an internet protocol.

53. (New) A system as recited in claim 52 wherein the internet protocol is TCP/IP.

54. (New) A system as recited in claim 51 further comprising conversion circuitry for converting analog voice signals to digital voice data and for converting digital voice data to analog voice signals for the reproduction of voice.